SANMITRA TECHNOLOGICAL CORPORATION

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(ISO 9001:2015 Certified Third Party Quality Control Certification
& Project Management Consultancy Organisation,
with NABL MOU for Testing and Calibration)

E-Mail : sanmitracorp@gmail.com, sanmitratechcorp@gmail.com

Ph : +91 9483808172 / 6364311207

Ref. No. STC|BBMP|Dasarhalli - P2|118 Date : 3|3|2021

To,
The Executive Engineer
Project Division Dasarahalli
BBMP Banglore

Respected Sir,

SUB: Submission of , Test reports for Improvements and construction of CC Road and Drain at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.

With reference to above subject we are submitting Test reports Construction Construction of CC Road and Drain at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.
The following tests were conducted.

1. Material Test of Ingredients of Concrete.
2. Cube Test.
3. Concrete Core Test.

The Test Results, Remarks are enclosed here with, please consider.

Thanking You,

Yours faithfully,

Sanmitra Technological Corporation

Asst. Executive Engineer
Project Division, Dasrahalli Zone
BBMP, Bangalore

Office : # No. 2843/B/7A1, Railway Station Road, Above Peerzade Automobiles, 1st Floor,
BADAMI-587201 Dist : Bagalkot State : Karnataka
Branches : Vijaypura, Bangalore, Hubli, Hydrabad, Vijaywad, Pune, Panjim (Goa), Chennai, Mumbai

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Date :

TEST REPORT OF CEMENT

Name of the Project : Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.

Scope of the Work : Plain cement concrete of mix 1:3:6 for Foundation of drins, Kerbs & Drains.

Name of Client : The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.

Date of Testing : 12/12/2019

Type of Cement : Ultratech OPC 43 Grade.

Specification : IS : 8112-1989/455-1976/1489-1976&12269-1999.& 4031 part IV.

Physical Requirements:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT	Test Method as per IS
1	Normal Consistency	29	----	IS-4031(Part-4)
2	Initial time in minute	115	30 (Min)	IS -4031(part-5)
3	Final time in minute	218	600(Max)	IS -4031(part-5)
4	Fineness of Cement (By Sieving method) in %	1.90	10 (Max)	IS 4031(part-5)
5	Soundness (By Le-Chatlier's method) in mm	1mm	10 (Max)	IS-4031(part-3)by the Le-chatelier Method.
6	Compressive strength in Mpa a) 72± 1hour	25.6	23 (Min)	IS 4031(Part-6)
	b) 168± 2hour	35.8	33 (Min)	

Remark:

The sample confirms to IS Specifications.

Note:

1. The results pertain to the samples tested only.
2. Remaining sample will be retained for a period of 15 days & no later complaints will be entertained.
3. The responsibility of the laboratory is limited only to the technical contents of the report. All the procedural, legal operational Matters would be the responsibility of client or customer.
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Date :

TEST REPORT OF CEMENT

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Reinforced cement concrete of mix M20 for Raft, side walls & For Culverts.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Testing : **12-12-2019**

Type of Cement : **Ultratech OPC 43 Grade.**

Specification : **IS : 8112-1989/455-1976/1489-1976&12269-1999.& 4031 part IV.**

Physical Requirements:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT	Test Method as per IS
1.	Normal Consistency	28	----	IS-4031(Part-4)
2.	Initial time in minute	126	30 (Min)	IS -4031(part-5)
3.	Final time in minute	347	600(Max)	IS -4031(part-5)
4.	Fineness of Cement (By Sieving method) in %	0.57%	10 (Max)	IS 4031(part-5)
5.	Soundness (By Le-Chatlier's method) in mm	0.6	10 (Max)	IS-4031(part-3)by the Le-chatelier Method.
6.	Compressive strength in Mpa c) 72± 1hour	23.8	23 (Min)	IS 4031(Part-6)
	d) 168± 2hour	31.1	33 (Min)	

Remark:

The sample confirms to IS Specifications.

Note:

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TEST REPORT OF COARSE AGGREGATES

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Reinforced cement concrete of mix M20 for Raft, side walls & For Culverts.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Sampling : **14/12/2019**

Type of Cement : **Ultratech OPC 43 Grade.**

Specification : **IS : 8112-1989/455-1976/1489-1976&12269-1999.**

Sieve Analysis:

Sl no	*Is sieve no in mm*	*Weight retained on sieve in gm.*	*Exact weight retained in gm*	*Percentage of weight retained.*	*Total % of weight retained on sieve .*	*Percentage of passing in IS sieve.*	*Total Percentage of passing as per IS 383-1970.*
1	*80*	-------	------	---------	----------	----------	----------
2	*40*	-------	------	---------	----------	----------	----------
3	*20*	*0.360*	*0.360*	*3.60*	*3.60*	*96.40*	*100*
4	*10*	*5.960*	*5.960*	*59.60*	*63.20*	*36.80*	*95-100*
5	*4.75*	*3.550*	*3.550*	*35.50*	*98.70*	*1.30*	*25-55*
6	*Pan*	*0.130*	*0.130*	*1.30*	*100.00*	*0.00*	*0-10*

Test Results:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT
1.	Sieve analysis in %	Graded	---
2.	Water Absorption in % (by weight of aggregates)	0.42	1 (Max)
3.	Specific Gravity	2.65	2.5 – 3
4.	Bulk Density	2.56	2.4 (Min)
5.	Impact Value in %	29.57	45 (Max)
6.	Crushing Value in %	29.35	45 (Max)
7.	Abrasion Value in %	26.95	50 (Max)
8.	Flakiness Index in %	11.87	30 (Max)
9.	Elongation Index in %	10.15	10-15

Remark:

The sample confirms to IS Specifications.

Note:

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TEST REPORT OF FINE AGGREGATES (M.SAND)

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Plain cement concrete of mix 1:3:6 for Foundation of drins, Kerbs & Drains.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Testing : **13/12/2019**

Type of Cement : **Ultratech OPC 43 Grade**

Sieve Analysis & Results:

SL NO	IS SIEVE DESIGNATION	% of cum wt retained	% OF PASSING	As per IS:383-1970	
1.	10mm	00	100	--------	Zone-II
2.	4.75mm	6.89	93.11	90-100	
3.	2.36mm	16.18	83.82	75-100	
4.	1.18mm	34.50	65.50	55-90	
5.	600micron	61.10	38.90	35-59	
6.	300micron	91.15	8.85	8-30	
7.	150micron	97.15	2.85	0-10	
Water absorption, %				0.79	
Silt & clay, %				1.10	
Specific gravity				2.61	
Bulkage of sand, %				15.21	

Test Report:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT
1.	Sieve analysis	Sample confirms to grading zone II	---
2.	Water absorption in %	0.79	1.2 (Max)
3.	Silt & clay content in %	1.10	3 (Max)
4.	Specific gravity	2.61	2.6-2.8
5.	Bulkage of sand	15.21	40 (Max)

Remark:

The sample confirms to IS Specifications.

Note:

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2. Remaining sample will be retained for a period of 15 days & no later complaints will be entertained

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TEST REPORTOF FINE AGGREGATES (M.SAND)

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

.Scope of the Work : **Reinforced cement concrete of mix M20 for Raft, side walls & For Culverts.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Testing : **14/12/2019**

Type of Cement : **Ultratech OPC 43 Grade**

Specification : **IS: 2386 (PART I - III) & IS: 383**

Sieve Analysis & Results:

SL NO	IS SIEVE DESIGNATION	% of cum wt retained	% OF PASSING	As per IS:383-1970	
1.	10mm	00	100	--------	Zone-II
2.	4.75mm	8.17	91.15	90-100	
3.	2.36mm	13.15	86.85	75-100	
4.	1.18mm	36.50	63.50	55-90	
5.	600micron	61.10	38.90	35-59	
6.	300micron	89.40	10.60	8-30	
7.	150micron	98.15	1.85	0-10	
Water absorption, %				0.85	
Silt & clay, %				1.13	
Specific gravity				2.61	
Bulkage of sand, %				15.67	

Test Report:

SL NO	PARTICULARS	TEST RESULTS	IS LIMIT
1.	Sieve analysis	Sample confirms to grading zone II	---
2.	Water absorption in %	0.85	1.2 (Max)
3.	Silt & clay content in %	1.13	3 (Max)
4.	Specific gravity	2.61	2.6-2.8
5.	Bulkage of sand	15.67	40 (Max)

Remark:

The sample confirms to IS Specifications.

Note:

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TEST REPORT ON CONCRETE CUBES

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for raft And side walls**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**

No of samples Tested : **03**

Grade of Concrete : **M20**

Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	16/12/2019	13/01/2020	8.214	458.3	20.37
02	16/12/2019	13/01/2020	8.235	516.3	22.95
03	16/12/2019	13/01/2020	8.257	527.1	23.43

Remark:

The sample confirms to IS Specifications.

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TEST REPORT ON CONCRETE CUBES

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for raft and side walls**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**

No of samples Tested : **03**

Grade of Concrete : **M20**

Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	20/12/2019	17/01/2020	8.40	480.15	21.34
02	20/12/2019	17/01/2020	8.20	476.31	21.16
03	20/12/2019	17/01/2020	8.30	478.15	21.25

Remark:

The sample confirms to IS Specifications.

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Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for raft and side walls**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**
No of samples Tested : **03**
Grade of Concrete : **M20**
Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	21/12/2019	18/01/2020	8.54	480.12	21.33
02	21/12/2019	18/01/2020	8.50	479.50	21.31
03	21/12/2019	18/01/2020	8.61	482.16	21.42

Remark:
The sample confirms to IS Specifications.

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TEST REPORT ON CONCRETE CUBES

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and laying reinforced cement concrete for Culverts**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Cross Sectional Area : **22500mm2**

No of samples Tested : **03**

Grade of Concrete : **M20**

Technical Refference : **IS 516-1959(Reaffirmed 2018)**

Sl no	Date of casting	Date of Testing	Weight of cube (Kg)	Failure Load (KN)	Compressive strength N/mm2
01	24/12/2029	21/01/2020	8.25	474.56	21.09
02	24/12/2019	21/01/2020	8.42	480.12	21.33
03	24/12/2019	21/01/2020	8.56	481.30	21.39

Remark:
The sample confirms to IS Specifications.

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TEST RESULTS OF KERB STONE(CORE)

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing T.M.T Steel for Drains and culverts.**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Sampling : **4/02/2020**

No of samples Tested : **03**

Grade of Concrete : **M15**

Technical Refference : **IS 516-1959(Reaffirmed 2018) SP-24:1983**

SLO	D of core (mm)	Height of core H(mm)	Core weight (kg)	Density of core (kg/m3)	H/D	Correction factor based on (H/D)	Failure Load (Kn)	Core strength (N/mm2)	Correction factor based on dia.	Corrected cylinder compressive strength (N/mm2)	Equivalent cube compressive strength (N/mm2)
1	50.00	6500	0.325	2546.48	1.3	0.960	26.90	13.70	14.796	14.20	17.75
2	50.00	75.00	0.360	2444.73	1.5	0.950	23.90	12.17	13.14	12.48	15.60
3	50.00	70.00	0.340	2473.72	1.4	0.960	24.65	12.55	13.55	13.00	16.25

Remark:

The sample confirms to IS Specifications.

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PRECAST SLAB(CORE) TEST REPORT

Name of the Project : **Improvements and construction of CC Road and Drains at M.S.Ramaiah Layout and Havnoor extn Surrounding Roads in Ward 14 Bagalagunte.**

Scope of the Work : **Providing and fixing RCC Precast Cover slab**

Name of Client : **The Executive Engineer, Project Division Dasarahalli BBMP ,Banglore.**

Date of Sampling : **05/02/2020**

No of samples Tested : **03**

Grade of Concrete : **M20**

Technical Refference : **IS 516-1959(Reaffirmed 2018) SP-24:1983**

SL NO	D of core (mm)	Height of core H(mm)	Core weight (kg)	Density of core (kg/m3)	H/D	Correction factor based on (H/D)	Failure Load (Kn)	Core strength (N/mm2)	Correction factor based on dia.	Corrected cylinder compressive strength (N/mm2)	Equivalent cube compressive strength (N/mm2)
1	50	100	0.489	2480.80	2.0	1.00	31.33	15.95	17.22	17.22	21.52
2	50	100	0.490	2481.34	2.0	1.00	31.35	15.96	17.23	17.23	21.53
3	50	100	0.492	2483.87	2.0	1.00	32.10	16.34	17.64	17.64	22.05

Remark:

The sample confirms to IS Specifications.

Note:

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